

In re Application of: Boaz RAN et al.
Serial No.: 10/540,940
Filed: June 23, 2005
Notice of Allowance Mailing Date: January 29, 2008

Examiner: Michael Patrick STAFIRA
Group Art Unit: 2886
Attorney Docket: 36317

In the Claims:

1-17. (Cancelled)

18. (Currently Amended) An illumination system for illuminating an SPR sensor surface having formed therein a conducting layer, the illumination system comprising:

a two dimensional array comprising rows and columns of light sources, wherein light sources in a same row provide light at different wavelengths;

a collimator that directs light from each light source in a collimated beam of substantially parallel light rays so that the light is incident on the sensor surface; and

a light source controller controllable to turn off and turn on a light source in the array independent of the other light sources in the array.

19. (Cancelled)

20. (Currently Amended) An illumination system according to claim ~~19~~18 wherein each column is substantially coplanar with a normal to the interface.

21. (Currently Amended) An illumination system according to claim ~~19~~18 wherein each row is substantially perpendicular to the normal.

22. (Currently Amended) An illumination system according to claim ~~19~~18 wherein light sources in a same column provide light at substantially same wavelengths.

23-24. (Cancelled)

25. (Previously Presented) An illumination system according to claim 18 and comprising an optical element having two parallel surfaces through which light from each light source passes before it is incident on the sensor surface and wherein

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the optical element is rotatable about an axis perpendicular to the normal so as to change an angle at which light from a given light source is incident on the sensor surface.

26-44. (Cancelled)

45. (Previously Presented) An illumination system according to claim 18 wherein light from each light source in the array illuminates the sensor surface at a different incident angle.

46. (Previously Presented) An illumination system according to claim 18 wherein light from each light source in the array illuminates the sensor surface at a same incident angle.

47. (Previously Presented) An illumination system according to claim 18 wherein light sources in at least a subset of light sources in the array provide light at substantially same wavelengths.

48. (Cancelled)

49. (Currently Amended) An illumination system ~~according to claim 18~~
for illuminating an SPR sensor surface having formed therein a conducting layer, the
illumination system comprising:

a two dimensional array of light sources;

a collimator that directs light from each light source in a collimated
beam of substantially parallel light rays so that the light is incident on the sensor
surface; and a light source controller controllable to turn off and turn on a light source
in the array independent of the other light sources in the array;

wherein for at least a subset of the light sources, light from each of the light sources in the subset illuminates the sensor surface at a same incident angle.

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50. (Previously Presented) An illumination system according to claim 49 wherein light sources in the subset provide light at different wavelengths.